

L.A.D. & Smt. R.P. College for Women, Nagpur

FACULTY PROFILE

❖ Basic Information

- **Name:** Ms. Ankita R. Daddemal (Chaudhary)
- **Designation:** Assistant Professor
- **Department:** Botany
- **Area of Specialization:** Phytochemistry, Ethnobotany and Bionanosynthesis
- **ORCID ID – 0000-0001-9194-4362**



- ❖ **Educational Qualifications:** Ph. D Pursuing, MH SET-2022, M.Sc. Botany RTMNU, Nagpur 2011-2012.

❖ Teaching Experience:

Total Teaching Experience: 7 Years

❖ Research Experience

- Total Research Experience: 4 years
- Research Guidance (M. Phil/Ph.D. Guided): NA
- Areas of Research Interest: Ethnobotany, Phytochemistry and Green Synthesis of nanoparticles

❖ Research Publications

(A) Research Papers in National/ International Journals

- [Bioinspired metal/metal oxide nanoparticles: A road map to potential applications](#)
PB Chouke, T Shrirame, AK Potbhare, A Mondal, AR Chaudhary, ...
Materials Today Advances 16, 100314:
<https://doi.org/10.1016/j.mtadv.2022.100314>

- [Phyto-derived metal nanoparticles: Prominent tool for biomedical applications](#)
PR Bhilkar, AS Bodhne, ST Yerpude, RS Madankar, SR Somkuwar, ...
OpenNano 14, 10019
<https://doi.org/10.1016/j.onano.2023.100192>
- [Review on Agrobiowaste-mediated Nanohybrids for Removal of Toxic Heavy Metals from Wastewater](#)
RG Chaudhary, NB Singh, AR Daddemal-Chaudhary, R Sharma
ChemistrySelect
<https://doi.org/10.1002/slct.202304230>**Digital Object Identifier (DOI)**
- [Bioinspired *Conyza bonariensis*-mediated ZnO/rGO NCs for effective degradation of toxic compounds under visible-light irradiation](#)
RS Madankar, P Bhilkar, M Raish, A Potbhare, M Norek, S Somkuwar, ...
Scientific Reports 15 (1), 2117
DOI<https://doi.org/10.1038/s41598-025-03229-8>
- [Bioinspired zinc-based nanomaterials: Synthesis, biomedical, environmental and agricultural applications](#)
- P Bhilkar, K Shrivastav, A Kahate, S Triphaty, R Madankar, A Chaudhary, ...
Materials Research Foundations, 81-112
- [Biosynthesis of microrubble-shaped nanoporous Co₃O₄/rGO NCs using leaves extract of *Neolamarckia cadamba* and its antibacterial/antioxidant performance](#)
PR Bhilkar, RS Madankar, AR Chaudhary, RR Chaudhary, SR Somkuwar, ...
Nano-Structures & Nano-Objects 39, 101291
<https://doi.org/10.1016/j.nanoso.2024.101291>
- [Catharanthus roseus-mediated CuAl₂O₄ nanocomposites for evaluation of killing kinetics](#)
AK Potbhare, S Yerpude, AR Daddemal-Chaudhary, A Lambat, A Mondal, ...
Chemosphere 359, 142369
- [Magnetic nanoparticles: fabrications and applications in cancer therapy and diagnosis](#)
TS Shrirame, P Bhilkar, AR Chaudhary, AR Rai, RP Singh, PR Dhongle, ...
Magnetic Nanoparticles for Biomedical Applications 143, 199-232 [Materials Today Advances](#)
- [Biosynthesis of Microrubble-Shaped Nanoporous Co₃O₄/Rgo Ncs Using Leaves Extract of *Neolamarckia Cadamba* and its Antibacterial/Antioxidant Performance](#)

RG Chaudhary, P Bhilar, RS Madankar, AR Chaudhary, RR Chaudhary, ...Antioxidant Performance

- [Phytochemical Analysis and Antimicrobial Activity of Mimordica Charantia Medicinal Plant Against Selected Common Human Pathogenic Microorganisms.\(2022\)](#)

SV Padwad, AP Lambat, PA Lambat, AR Chaudhary, AD Tiple Int J Pharm Sci 13 (3), p1-15

(B) Books / Book Chapters

Authored-

- [Bioinspired zinc-based nanomaterials: Synthesis, biomedical, environmental and agricultural applications](#)

P Bhilkar, K Shrivastav, A Kahate, S Tripathy, R Madankar, A Chaudhary, ...Materials Research Foundations, 81-112

- Materials Research Foundations 169 (2024) 81-112

<https://doi.org/10.21741/9781644903278-4>

- [Magnetic nanoparticles: fabrications and applications in canctherapy and diagnosis](#)

TS Shrirame, P Bhilkar, AR Chaudhary, AR Rai, RP Singh, PR Dhongle, .Magnetic Nanoparticles for Biomedical Applications 143, 199-232

(C) Conference / Seminar Proceedings

S. No.	Conferences	Name of Organization	Date
01.	Attend UGC sponsored National conference on green chemistry for environment and human health	I Kamla Nehru Mahavidyalaya, Nagpur.	20/01/2011

02	International Conference on Futuristic Materials and Life Sciences (ICFM)	P.G.T.D. Chemistry, R.T.M. Nagpur University, Nagpur association with S.K. Porwal College, Kamptee	5-7 Feb 2015
03	Innovations in Agri-Biosciences	Dr. Ambedkar College, Deekshabhoomi Nagpur	26& 27 Feb. 2016
04	International Conference on Integrated Approach in S&T for Sustainable Future	Dr. Ambedkar College, Nagpur & Seth Kesarimal Porwal College of Arts & Science. Kamthi & Priyadarshini J.L. College of Engineering, Nagpur	26& 27 Feb. 2022
05	Workshop on Research Data Analysis & Interpretation using SPSS	A2Z Education Learning Hub	15th to 17th March 2022
06	5th International Conference on Science And Technology For Society	VMS Research Foundation, Nagpur.	19th&20th June 2022
07	Workshop on “Nurturing Research On Academics”	Rastrasant Tukadoji Maharaj Nagpur University, Nagpur	13th October,2022
08	Innovation In S&T For Future Sustainability & Farmers Meet On Agri-Innovation For Sustainable Productivity	Dr. Ambedkar College, Deekshabhoomi, Nagpur.	4th March, 2023

09	One Day Workshop On Pharmacognosy &Herbal Technology	Jointly organized by Department of Botany, MP Deo Dharampeth Science College and DRB,Sindhu Mahavidyalaya, Nagpur & Bhalerao Science College	8th March,2023
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❖ Research Projects

- Minor/ Major Research Projects:

S.N.	Title	Funding Agency:	Year	Amount Sanctioned
1	“Urban Bloom shift: turning waste into Wonders”	RDC, RTMNU, NAGPUR	2026-2028	3,00,000

❖ Orientation / Refresher Courses / FDPs Attended

- 1) Successfully participated in the Five-Day International Faculty Development Programme on AI in Research and Innovation held from 18th to 22 August 2025 at LAD & Smt. R.P. College for Women, Nagpur.
- 2) Successfully completing the Faculty Induction Programme (FIP) Conducted by UGC- MMTTC, RTMNU, Nagpur from 1st December to 27th December, 2025.

- 3) Participated in “NEP 2020 orientation and Sensitization Programme” Under Malviya Mission Teacher Training Programme (MM-TTP) under UGC organized By RTMNU Nagpur University, Nagpur from 16th March to 30th March, 2025.

❖ **Papers Presented in Conferences / Seminars**

- ❖ Participated in Poster Presentation on “Green synthesis and characterization of zirconium oxide (ZrO₂) Nanoparticles using *Cyperus alternifolius* plant leaf extract.” in national Conference on Advances in Chemical and Life Sciences (NCACLS): Towards Sustainable Biodiversity held at St. Francis de Sales College, Nagpur on February 7& 8, 2025.

- ❖ Participated in National Conference on “Entrepreneur Development & startup under NEP-2020” organized by Department of Home Science Sevadal Mahila Mahavidyalaya, Nagpur 16th October 2025

❖ **Workshops / Seminars / Conferences Organized**

- Department of Botany organized “Smt. Shantabai Shekdar Intercollegiate Science

 - Seminar on Scientific Topic for students of Science Faculty” for year 2025-26 on
 - Friday 10th October

❖ **Administrative Responsibilities**

- Member of Student Aid Fund committee from Faculty of Science.

❖ **Membership of Professional Bodies**

- Member of RTMNU Chapter of Indian Botanical Society.

❖ **Awards / Recognitions**

- ICN-2024 Second Best Poster Presentation award

❖ **E-Content / MOOCs / ICT Use**

- SWAYAM / NPTEL Courses- 4 courses of NPTEL have done
- Google Classroom / LMS